

APPENDIX

B

Special Environmental Considerations

Discharges to Water Quality Impaired Waters

The permittee “must determine whether storm water discharge from any part of the MS4 contributes to a 303(d) listed (i.e. impaired) waterbody.” (Small MS4 General UPDES Permit 3.1.1.1) The 303(d) list of impaired waterbodies is found at: <http://www.waterquality.utah.gov/TMDL/index.htm>

Ideas for Including Water Quality Controls, Structures and Processes in All Project Designs

1. Review and update Storm Drain Master Plan for opportunities to include water quality aspects to Capital Improvement Projects.
2. During conceptual design review meetings – ask the questions –
 - a. *Is there opportunity to include water quality aspects to this project?*
 - b. *Are there any highly impacted areas where water quality needs to be protected and/or enhanced?*
 - c. *Are there low-impact development concepts and ideas that might work for this project?*
 - d. *Can directly connected impervious areas (DCIA) on this project be limited?*
 - e. *What can be done to minimize runoff?*
3. Train all employees, contractors and developers on applicable SOP's and BMP's for all projects.
4. Include water quality aspects into SWPPP discussion as part of the agenda for preconstruction meetings for all projects.
5. Look for “green money” funding options for water quality aspects of all projects.
6. Follow normal SWPPP review process/checklist review for all projects.

STORMWATER COLLECTION AND CONVEYANCE SYSTEM MAINTENANCE PLAN

The stormwater collection and conveyance system includes catch basins, piping and other facilities used for stormwater conveyance and/or treatment. This section lists operations and maintenance requirements for catch basins, piping and other facilities.

1. Street Sweeping

- a. Street sweeping is a preventative practice to help eliminate debris from entering the catch basins. The City has been broken up into 5 street sweeping areas with approx. 12 lane miles in each section.
 - i. All City streets will be swept at least 5 times per year.
(Priority Area 4 will be swept twice as much or 10 times per year)

2. Stormwater Piping/ Catch Basins

- a. Cleaning is needed to ensure proper functionality of the system. The system will be inspected one sweeper area annually to see the need for cleaning of the pipes and catch basins.
 - i. One sweeper area per year will be inspected and cleaned as needed.
 1. Clean catch basins when they are half full or when the sediment and debris is within 2 inches of the bottom of the outlet pipe. Follow catch basin SOP.
 2. Clean Pipe when there is 1" or more of sediment on the bottom of pipes
- b. Stormwater piping must be in good condition. Piping should be inspected regularly and repaired as needed.
 - i. Each sweeper area, the pipes will be inspected using a inline camera, and after reviewing the inspections the repair will be scheduled as time and finances permit.
 - c. Catch Basins, structure and covers will be inspected annually according to the current area, and maintenance and or repairs will be scheduled as time and finances permit.

3. Grate Cleaning, Grates are one type of cover for catch basins.

- a. Cleaning, grates will be cleaned on a as needed basis. During or before rain events, or when the Div. is made aware of an issue.
4. **Other Stormwater Facilities** (Other facilities can include both structural and non-structural stormwater facilities, such as green stormwater infrastructure elements including swales, detention basins, flood management control structures, oil separators, underground structures, pump stations. All of these facilities require routine maintenance to ensure their functionality is maintained).
 - a. Utilizing the City GIS map inspect all of these type of structures public and privately owned annually.
 - b. If maintenance is required, contact the appropriate personnel and inform them of the need and follow up once the maintenance has been complete.